Approved For Release 2001/11/01 : CIA-RDP67R00587A000100030044-5

CRODET

Executive Registry

DD/S&T-0986-64

Mais 1964 ADM-2.

MEMORANDUM FOR: Deputy Director of Central Intelligence

THROUGH Executive Director -- Comptroller

SUBJECT Approval of Punds to Persus Development of

Miniaturized Traveling Wave Tube

This memorandum transmits a recommendation for approval. Such recommendation is contained in paragraph 意识可绘整。

OBJECTIVES: Our provious SIGINT program required the development of a low noise traveling wave tube preamplifier that exhibited high gain with a very low noise figure. This development was accomplished to a very high 5X1A5A1 degree of setisfaction by the

Pursuant to our request, mitted a proposal to develop a miniaturized version of this preamplifier. The program will entail the development and production of a battery powered TVT preamplifier that weight approximately five pounds. Their new concept in heater cathode design will reduce the power consumed from the present 2.00 watte, to a possible 16 milli-watte. This latter figure. will permit the system to operate continuously for a period of ton days.

- APPLICATION: Many of our SIGINT activities have demonstrated a need for a portable collection system with a capability comparable to a fixed station operation. proposed advancement in ministurization and low power coasumption will permit the development of a highly sensitive preamplifier for portable receivers that will closely approach this objective. If the program achieves its desired goal, an operational tool will become available that will greatly enhance many future microvave systems and permit the upgrading of certain systems that are in current use.
- 4. TECHNICAL SPECIFICATIONS: Background data contained in attachments A and B is designed to provide necessary technical information upon which to evaluate the approval action recommended in paragraph seven.

Subject Capy

Excluded from automatic CROUP 1 downgrading and declassification

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5. COMPACTOR: The idea and practical nethod for designing optimum ministerized permanent magnets was conceived . They have a rest assess of background and experience and have already accumulated data that clearly deponstrates their ability to focus a ter-meine tube at better than 99 percent transmission through a single reversal structure. Since other manufacturers of Ter's have set demonstrated a similar ability. sidered to be a sole source for the accomplishment of thi 25X1A5A1 *学情唱! F·李鹏令性*。

6. SUBSTICE AND FUNDING: Total development expense for 25X1A1A The minimum of the power, per table To is detimated at earmarked for the execution of this remearch effort. 25X1A1A and the balance will be obtained by reprogramming. The coatract is to be valid for a period of one year from date of association and will require no additional funding in FY-61.

> 7. Based on the foregoing, it is recommended that you approve as vapeaditure of for purposes met forth hareia.

> > 25X1A1A

ariginal signed by

Deputy Director closed and Technology)

The recommendation contained in paragraph seven is approved:

Director of Contrat Into Migraco

17 MAR 1964

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